

## REPLACEMENT SHEET

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Polypeptide	Amino acid sequence					SEQ ID NO:	
Z <sub>wt</sub>	VDNKENKEQQ	NAFYEIHLPL	NLNEEQRNAF	IQSLKDDPSQ	SANLLAEAKK	LNDQAQPK	1
Z <sub>HER2 A</sub>	VDNKNFNKELR	QAYWEIQALP	NLNWTQSRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	2
Z <sub>HER2 B</sub>	VDNKENKEPK	TAYWEIVKLP	NLNPEQRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	3
Z <sub>HER2 C</sub>	VDNKNFNKEPR	EAYWEIQRLP	NLNKKQKAFF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	4
Z <sub>HER2 D</sub>	VDNKNFNKEWV	QAGSEIYNLP	NLNRAQMRAF	IRSLSDDDPSQ	SANLLAEAKK	LNDQAQPK	5
Z <sub>HER2:101</sub>	VDNKENKEMR	HAYWEIVKLP	NLNPRQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	6
Z <sub>HER2:102</sub>	VDNKENKEMR	KAYWEIVLLP	NLNRRQSRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	7
Z <sub>HER2:103</sub>	VDNKENKEMR	HAYWEIATLP	NLNNVQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	8
Z <sub>HER2:104</sub>	VDNKENKEFR	TAYWEIVLLP	NLNPGQIRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	9
Z <sub>HER2:105</sub>	VDNKENKELR	TAYWEIVLLP	NLNTWQIRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	10
Z <sub>HER2:106</sub>	VDNKENKEPR	KAYWEIAVLP	NLNPAQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	11
Z <sub>HER2:107</sub>	VDNKENKEMR	NAYWEIALLP	NLNMQQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	12
Z <sub>HER2:108</sub>	VDNKENKELR	TAYWEIVGLP	NLNHFQVRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	13
Z <sub>HER2:109</sub>	VDNKENKELR	TAYWEIVLLP	NLNWQIRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	14
Z <sub>HER2:110</sub>	VDNKENKEIR	NAYWEIALLP	NLNMQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	15
Z <sub>HER2:112</sub>	VDNKENKEFR	KAYWEIVVLP	NLNRMQIRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	16
Z <sub>HER2:113</sub>	VDNKENKEFR	TAYWEIVLLP	NLNREQGRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	17
Z <sub>HER2:114</sub>	VDNKENKEMR	TAYWEIATLP	NLNKQIRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	18
Z <sub>HER2:115</sub>	VDNKENKEFR	NAYWEIVVLP	NLNRRQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	19
Z <sub>HER2:116</sub>	VDNKENKEFR	NAYWEIAKLP	NLNNGQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	20
Z <sub>HER2:118</sub>	VDNKENKEFR	QAYWEIALLP	NLNHSQTRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	21
Z <sub>HER2:120</sub>	VDNKENKEPR	HAYWEIVKLP	NLNLSQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	22
Z <sub>HER2:121</sub>	VDNKENKELR	TAYWEIVGLP	NLNSRQSRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	23
Z <sub>HER2:122</sub>	VDNKENKELR	TAYWEIAGLP	NLNPKQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	24
Z <sub>HER2:123</sub>	VDNKENKEMR	KAYWEITQLP	NLNTROTRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	25
Z <sub>HER2:124</sub>	VDNKENKEFR	KAYWEIVLLP	NLNWEQNAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	26
Z <sub>HER2:125</sub>	VDNKENKEFR	KAYWEITQLP	NLNREQNAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	27
Z <sub>HER2:126</sub>	VDNKENKEMR	HAYWEIATLP	NLNTNQSRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	28
Z <sub>HER2:127</sub>	VDNKENKEMR	NAYWEIVGLP	NLNRMQSRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	29

FIG. 1A

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Polypeptide	Amino acid sequence						SEQ ID NO:
ZHER2:129	VDNKFNKELR	NAYWEIVKLP	NLNPWQHRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	30
ZHER2:130	VDNKFNKELR	TAYWEIVKLP	NLNVQSRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	31
ZHER2:133	VDNKFNKEMR	TAYWEIVKLP	NLNDYQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	32
ZHER2:135	VDNKFNKELR	TAYWEITQLP	NLNRQLSRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	33
ZHER2:137	VDNKFNKELR	TAYWEIAGLP	NLNAQQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	34
ZHER2:138	VDNKFNKEMR	QAYWEIVRLP	NLNAQKQRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	35
ZHER2:139	VDNKFNKEMR	NAYWEIVTLP	NLNMKTQSRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	36
ZHER2:140	VDNKFNKEMR	QAYWEIVKLP	NLNPFGQSRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	37
ZHER2:148	VDNKFNKEMR	TAYWEIALLP	NLNMNQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	38
ZHER2:153	VDNKFNKELR	KAYWEIALLP	NLNMKQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	39
ZHER2:158	VDNKFNKEMR	KAYWEIALLP	NLNMKQIRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	40
ZHER2:159	VDNKFNKEMR	QAYWEIVLPL	NLNMKQTRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	41
ZHER2:162	VDNKFNKELR	KAYWEIVGLP	NLNRQKQRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	42
ZHER2:165	VDNKFNKEMR	TAYWEIVGLP	NLNMKQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	43
ZHER2:167	VDNKFNKELR	TAYWEIVRLP	NLNMVQTRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	44
ZHER2:168	VDNKFNKELR	HAYWEIVRLP	NLNMAGHRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	45
ZHER2:169	VDNKFNKELR	KAYWEIVTLP	NLNPQSBRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	46
ZHER2:170	VDNKFNKEMR	TAYWEIAKLP	NLNPQKQRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	47
ZHER2:171	VDNKFNKELR	TAYWEIVTLP	NLNMSTQTRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	48
ZHER2:172	VDNKFNKELR	KAYWEIQVLP	NLNVKQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	49
ZHER2:177	VDNKFNKELR	QAYWEIVLPL	NLNRFKQRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	50
ZHER2:178	VDNKFNKEMR	NAYWEIVGLP	NLNMQKQRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	51
ZHER2:179	VDNKFNKELR	QAYWEIVKLP	NLNMNSQRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	52
ZHER2:180	VDNKFNKEMR	TAYWEIVRLP	NLNMKQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	53
ZHER2:205	VDNKFNKEMR	TAYWEIVLPL	NLNMKQSRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	54
ZHER2:207	VDNKFNKEMR	TAYWEIVTLP	NLNMKQIRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	55
ZHER2:209	VDNKFNKEMR	NAYWEIALLP	NLNMVQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	56
ZHER2:222	VDNKFNKELR	QAYWEIVKLP	NLNMSTQRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	57
ZHER2:223	VDNKFNKEMR	TAYWEIVKLP	NLNMIAQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	58
ZHER2:225	VDNKFNKELR	TAYWEIVSLP	NLNMKQSRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	59
ZHER2:226	VDNKFNKEMR	NAYWEIVKLP	NLNPFGQSRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	60

FIG. 1B

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Polypeptide	Amino acid sequence						SEQ ID NO:
Z <sub>HER2</sub> :227	VDNKENKEMR	QAYWEIALLP	NLNKQIRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	61
Z <sub>HER2</sub> :229	VDNKENKEFR	TAYWEIAVLV	NLNKQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	62
Z <sub>HER2</sub> :230	VDNKENKECR	TAYWEIVKLP	NLNNAQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	63
Z <sub>HER2</sub> :232	VDNKENKEPK	TAYWEIVVLP	NLNKQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	64
Z <sub>HER2</sub> :233	VDNKENKEMR	NAYWEIVTLP	NLNKQIRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	65
Z <sub>HER2</sub> :234	VDNKENKEMR	KAYWEIATLP	NLNKSQSRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	66
Z <sub>HER2</sub> :235	VDNKENKEFR	TAYWEIVTLP	NLNKQTRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	67
Z <sub>HER2</sub> :236	VDNKENKELR	TAYWEIVGLP	NLNTRQSRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	68
Z <sub>HER2</sub> :237	VDNKENKELR	HAYWEIVQLP	NLNREQGRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	69
Z <sub>HER2</sub> :239	VDNKENKEFR	HAYWEIILKP	NLNKQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	70
Z <sub>HER2</sub> :240	VDNKENKEMR	TAYWEIVSLP	NLNLTQSRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	71
Z <sub>HER2</sub> :261	VDNKENKEMR	KAYWEIQGLP	NLNKQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	72
Z <sub>HER2</sub> :264	VDNKENKEMR	NAYWEIAKLP	NLNREQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	73
Z <sub>HER2</sub> :265	VDNKENKEMR	HAYWEIVGLP	NLNMTQQRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	74
Z <sub>HER2</sub> :271	VDNKENKELR	NAYWEIVKLP	NLNRAQNRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	75
Z <sub>HER2</sub> :278	VDNKENKELR	TAYWEIILKP	NLNMYQRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	76
Z <sub>HER2</sub> :0024*	VDNKENKEPR	EAYWEIQRLP	NLNKQKTAFA	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	77
Z <sub>HER2</sub> :0434	VDNKENKEMY	AAYWEIIDLP	NLNTQITHAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	78
Z <sub>HER2</sub> :3053	VDNKENKETR	SAYWEIVNLP	NLNQGGQRHAF	IKSLYDDPSQ	SANLLAEAKK	LNDQAQPK	79

FIG. 1C